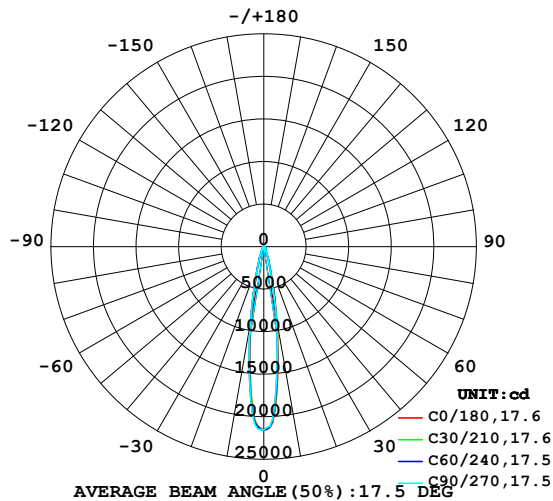


LUMINAIRE PHOTOMETRIC TEST REPORT

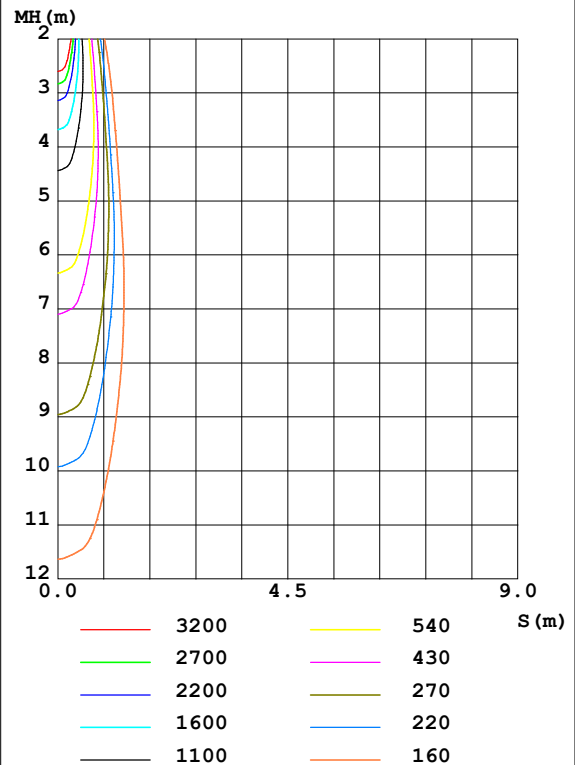
Test:U:225.0V I:0.1700A P:36.70W PF:0.9590 Freq:50.00Hz Lamp Flux:3108.45x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 84.70 lm/W
MODEL	ALT85-37G30-15	I _{max} (cd)	21567	S/MH(C0/180)	0.31	
NOMINAL POWER(W)	37	LOR(%)	100.0	S/MH(C90/270)	0.29	
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	3108.4	□ UP,DN(C0-180)	0.0,51.8	
NOMINAL FLUX(lm)	3108.45	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,48.2	
LAMPS INSIDE	1	□ up(%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	225	□ down(%)	100.0	CIBSE SHR MAX	1.00	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:AE
 Test Date:2020-03-06

□ Range: 0 - 90DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.240m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

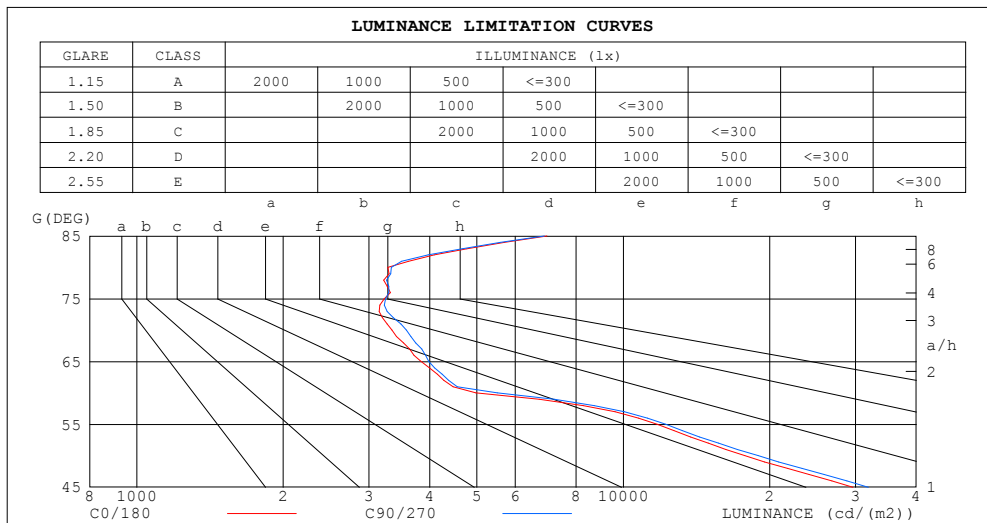
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	883.3	941.0	924.9	928.6	898.9	840.1	845.2	831.1	0- 10	1363	1363	43.9,43.9
20	158.5	171.9	175.2	177.6	168.4	154.4	153.6	149.3	10- 20	1062	2426	78,78
30	42.53	46.52	46.90	47.44	44.56	41.91	41.15	40.80	20- 30	396.2	2822	90.8,90.8
40	15.58	16.66	16.89	16.87	16.00	15.39	15.53	15.38	30- 40	169.3	2991	96.2,96.2
50	5.015	5.454	5.375	5.359	5.030	4.801	5.257	5.337	40- 50	75.74	3067	98.7,98.7
60	1.092	1.244	1.218	1.191	1.122	1.006	1.302	1.308	50- 60	27.34	3094	99.5,99.5
70	0.5026	0.5455	0.5417	0.5321	0.5617	0.5711	0.5433	0.5499	60- 70	7.567	3102	99.8,99.8
80	0.2500	0.2549	0.2559	0.2553	0.2507	0.2444	0.2491	0.2545	70- 80	4.114	3106	99.9,99.9
90	0.3046	0.2991	0.2998	0.3010	0.1750	0.1753	0.1761	0.1752	80- 90	2.597	3108	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:AE
 Test Date:2020-03-06

□ Range: 0 - 90DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.240m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:225.0V I:0.1700A P:36.70W PF:0.9590 Freq:50.00Hz Lamp Flux:3108.45x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6971	6879
80	3279	3335
75	3226	3247
70	3347	3585
65	3840	3982
60	4975	5512
55	11735	12226
50	17771	18924
45	29645	31898

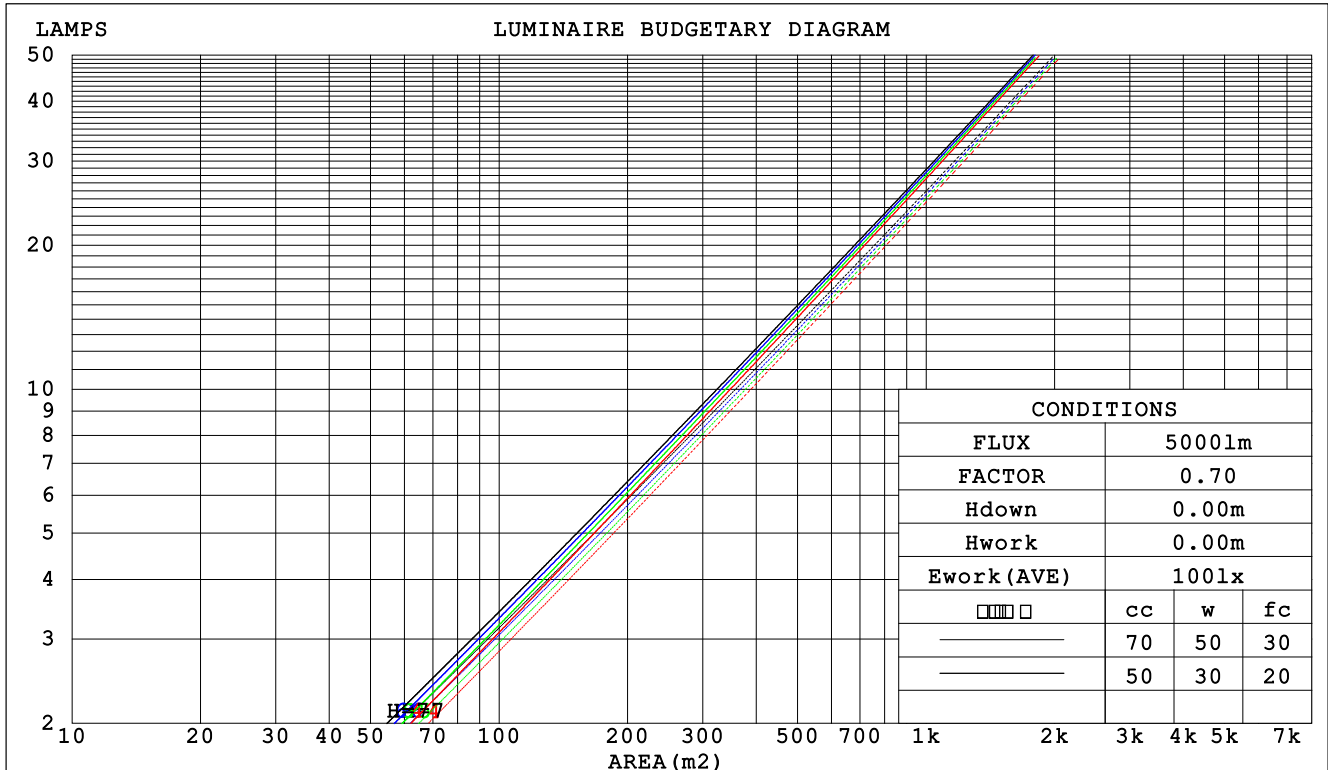
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-03-06

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:225.0V I:0.1700A P:36.70W PF:0.9590 Freq:50.00Hz Lamp Flux:3108.45x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:AE
 Test Date:2020-03-06

□ Range: 0 - 90DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.240m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:225.0V I:0.1700A P:36.70W PF:0.9590 Freq:50.00Hz Lamp Flux:3108.45x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.:		SUR.:75		Shielding Angle:	

<input type="checkbox"/> cc	80%			70%			50%			30%			10%			0														
<input type="checkbox"/> w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
<input type="checkbox"/> fc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Wall Exitance Coefficients (WEC)														
0.0																														
1.0	.137	.078	.025	.131	.074	.024	.118	.068	.022	.107	.062	.020	.096	.056	.018															
2.0	.127	.070	.021	.122	.067	.021	.111	.062	.019	.102	.057	.018	.093	.053	.017															
3.0	.118	.063	.019	.114	.061	.018	.105	.057	.017	.097	.053	.016	.090	.050	.015															
4.0	.111	.057	.017	.107	.056	.017	.100	.053	.016	.093	.050	.015	.087	.047	.014															
5.0	.104	.053	.015	.101	.052	.015	.094	.049	.014	.089	.047	.014	.083	.045	.013															
6.0	.098	.049	.014	.095	.048	.014	.090	.046	.013	.085	.044	.013	.080	.042	.013															
7.0	.093	.046	.013	.090	.045	.013	.086	.043	.012	.081	.042	.012	.077	.040	.012															
8.0	.088	.043	.012	.086	.042	.012	.082	.041	.012	.078	.040	.011	.075	.038	.011															
9.0	.084	.041	.011	.082	.040	.011	.078	.039	.011	.075	.038	.011	.072	.037	.011															
10.0	.080	.038	.011	.078	.038	.011	.075	.037	.010	.072	.036	.010	.070	.035	.010															

<input type="checkbox"/> cc	80%			70%			50%			30%			10%			0
<input type="checkbox"/> w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
<input type="checkbox"/> fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.168	.158	.148	.144	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.150	.133	.118	.129	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.135	.113	.096	.116	.098	.083	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.123	.098	.079	.105	.085	.069	.072	.059	.048	.042	.035	.029	.013	.011	.009	
5.0	.112	.086	.066	.096	.074	.057	.066	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.103	.076	.056	.089	.065	.049	.061	.046	.034	.035	.027	.020	.011	.009	.007	
7.0	.095	.067	.048	.082	.058	.042	.057	.041	.029	.033	.024	.018	.011	.008	.006	
8.0	.089	.061	.041	.076	.052	.036	.053	.037	.025	.031	.022	.015	.010	.007	.005	
9.0	.083	.055	.036	.071	.048	.031	.049	.033	.022	.029	.020	.013	.009	.006	.004	
10.0	.078	.050	.031	.067	.043	.027	.047	.031	.020	.027	.018	.012	.009	.006	.004	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-03-06

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:225.0V I:0.1700A P:36.70W PF:0.9590 Freq:50.00Hz Lamp Flux:3108.45x1 lm										
NAME:					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					SUR.:75			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	11.6	12.2	11.8	12.4	12.5	11.9	12.5	12.1	12.7	12.8
3H	11.5	12.1	11.7	12.3	12.5	11.8	12.4	12.1	12.6	12.8
4H	11.5	12.0	11.7	12.2	12.4	11.8	12.4	12.0	12.6	12.8
6H	11.4	12.0	11.7	12.2	12.4	11.8	12.3	12.0	12.5	12.8
8H	11.4	11.9	11.7	12.2	12.4	11.7	12.3	12.0	12.5	12.8
12H	11.4	11.9	11.7	12.2	12.4	11.7	12.2	12.0	12.5	12.8
4H 2H	11.4	12.0	11.7	12.2	12.4	11.8	12.3	12.0	12.5	12.7
3H	11.4	11.9	11.7	12.1	12.4	11.7	12.2	12.0	12.5	12.7
4H	11.3	11.8	11.7	12.1	12.4	11.7	12.1	12.0	12.4	12.7
6H	11.3	11.7	11.7	12.0	12.4	11.6	12.0	12.0	12.4	12.7
8H	11.3	11.7	11.7	12.0	12.4	11.6	12.0	12.0	12.4	12.7
12H	11.4	11.7	11.8	12.1	12.5	11.7	12.0	12.1	12.4	12.8
8H 4H	11.2	11.6	11.6	12.0	12.3	11.5	11.9	11.9	12.3	12.6
6H	11.2	11.5	11.6	11.9	12.3	11.5	11.9	12.0	12.2	12.7
8H	11.2	11.5	11.7	11.9	12.4	11.6	11.8	12.0	12.2	12.7
12H	11.4	11.6	11.8	12.0	12.5	11.6	11.9	12.1	12.3	12.8
12H 4H	11.2	11.5	11.6	11.9	12.3	11.5	11.8	11.9	12.2	12.6
6H	11.2	11.5	11.6	11.9	12.3	11.5	11.8	11.9	12.2	12.6
8H	11.2	11.5	11.7	11.9	12.4	11.5	11.8	12.0	12.2	12.7
Variations with the observer position at spacings:										
S = 1.0H	+ 2.0 / - 4.4					+ 2.1 / - 4.5				
1.5H	+ 3.1 / - 3.1					+ 3.2 / - 3.2				
2.0H	+ 4.1 / - 4.2					+ 4.3 / - 4.4				

CIE Pub.117, 3108 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 3.9$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-03-06

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:225.0V I:0.1700A P:36.70W PF:0.9590 Freq:50.00Hz Lamp Flux:3108.45x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:

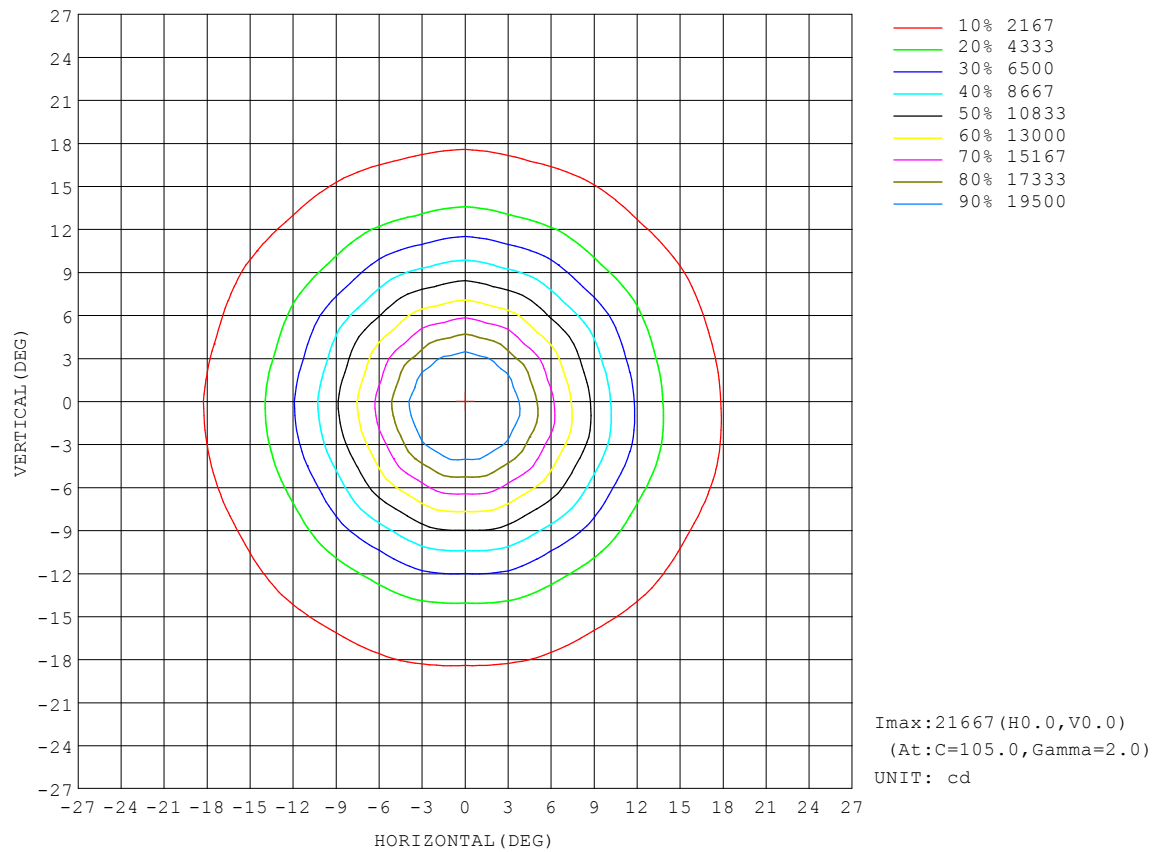
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	80	89	83	79	88	83	79	76
0.80	96	91	87	96	91	87	95	90	87	83
1.00	100	95	92	100	95	92	98	95	91	87
1.25	104	99	96	103	99	96	101	98	95	91
1.50	107	102	99	106	102	99	103	100	98	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	104	102	96
3.00	112	109	106	110	108	105	107	105	103	97
4.00	114	112	109	112	110	108	109	107	105	98
5.00	115	113	112	113	111	110	109	108	107	99
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: AE
Test Date: 2020-03-06

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.240m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:225.0V I:0.1700A P:36.70W PF:0.9590 Freq:50.00Hz Lamp Flux:3108.45x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:

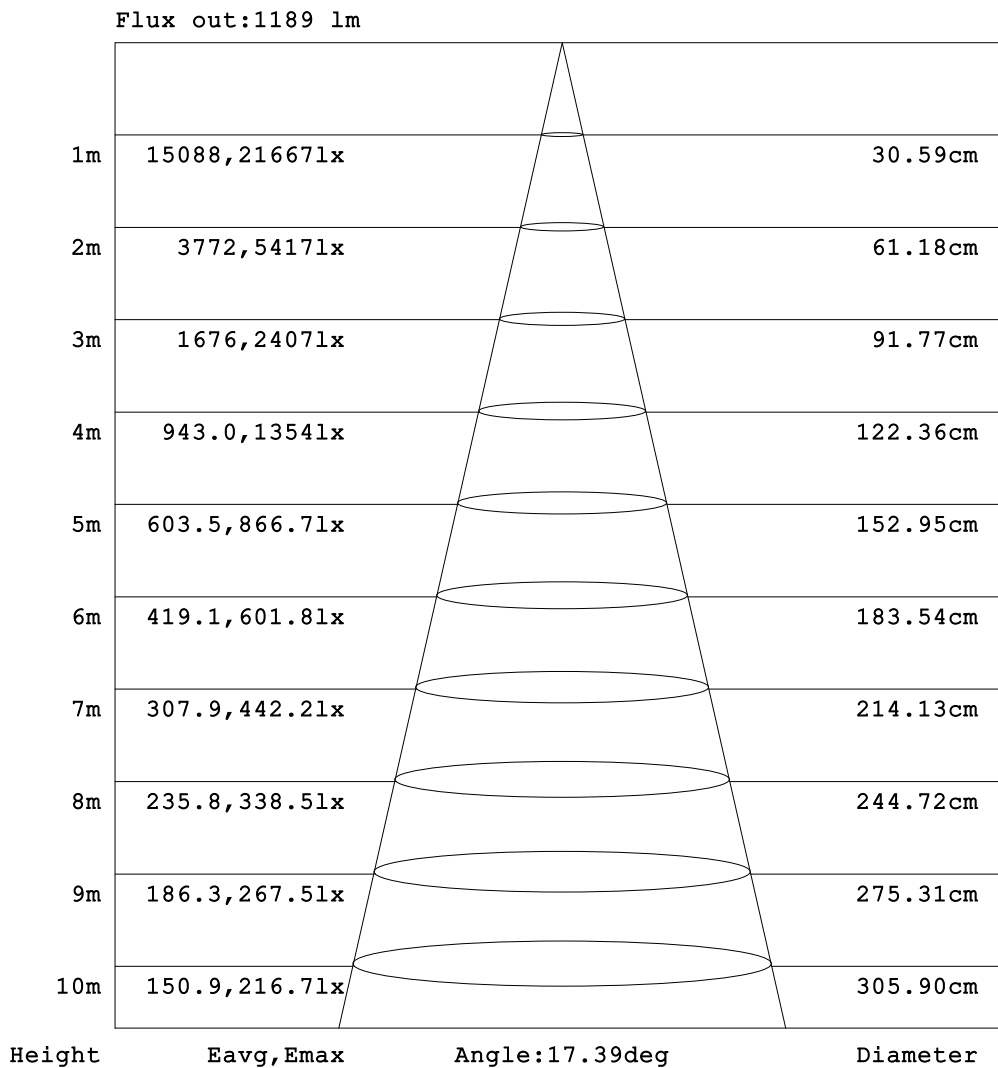


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-03-06

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

AAI Figure

Test:U:225.0V I:0.1700A P:36.70W PF:0.9590 Freq:50.00Hz Lamp Flux:3108.45x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:



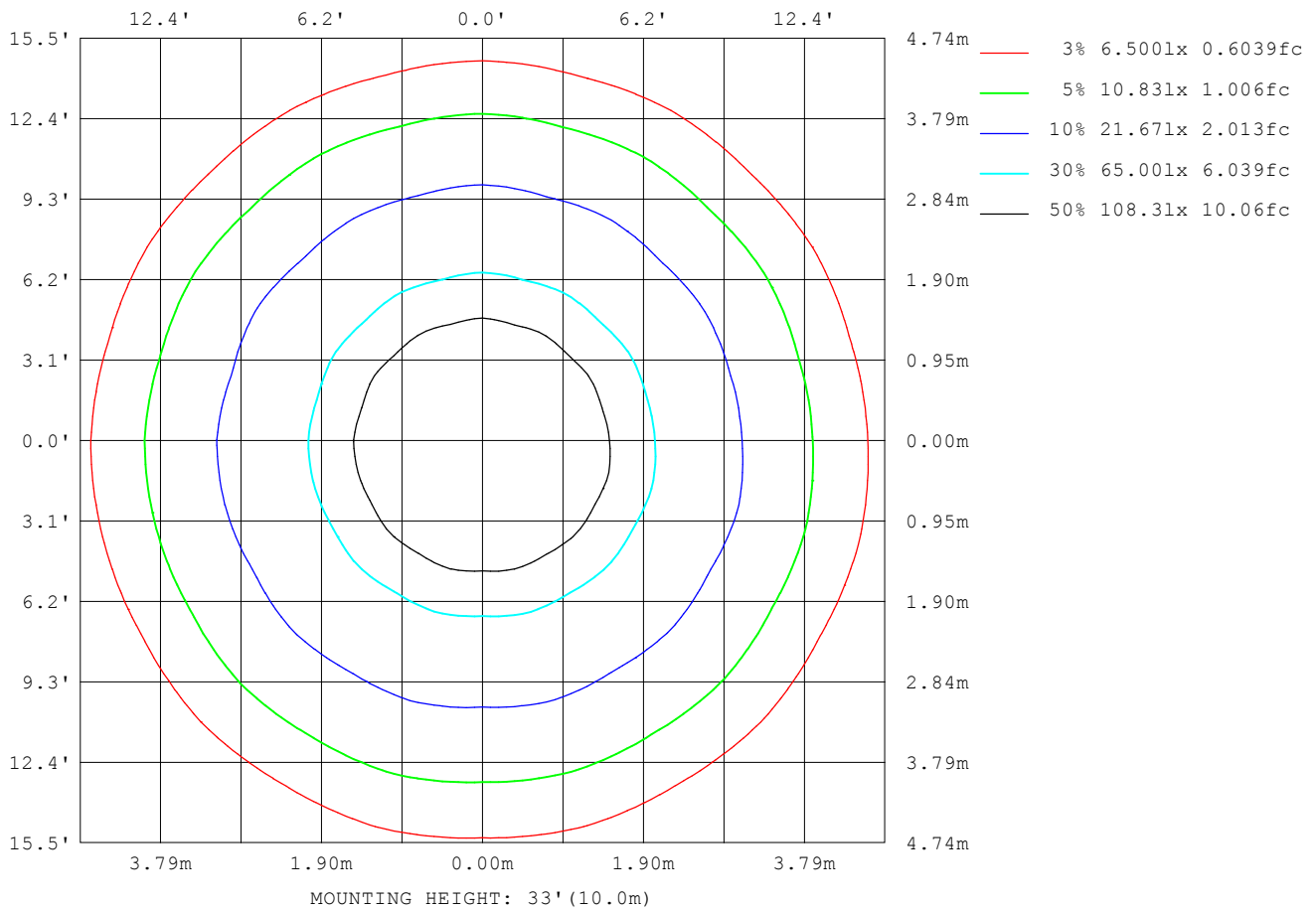
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-03-06

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:225.0V I:0.1700A P:36.70W PF:0.9590 Freq:50.00Hz Lamp Flux:3108.45x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:AE
 Test Date:2020-03-06

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.240m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:225.0V I:0.1700A P:36.70W PF:0.9590 Freq:50.00Hz Lamp Flux:3108.45x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:

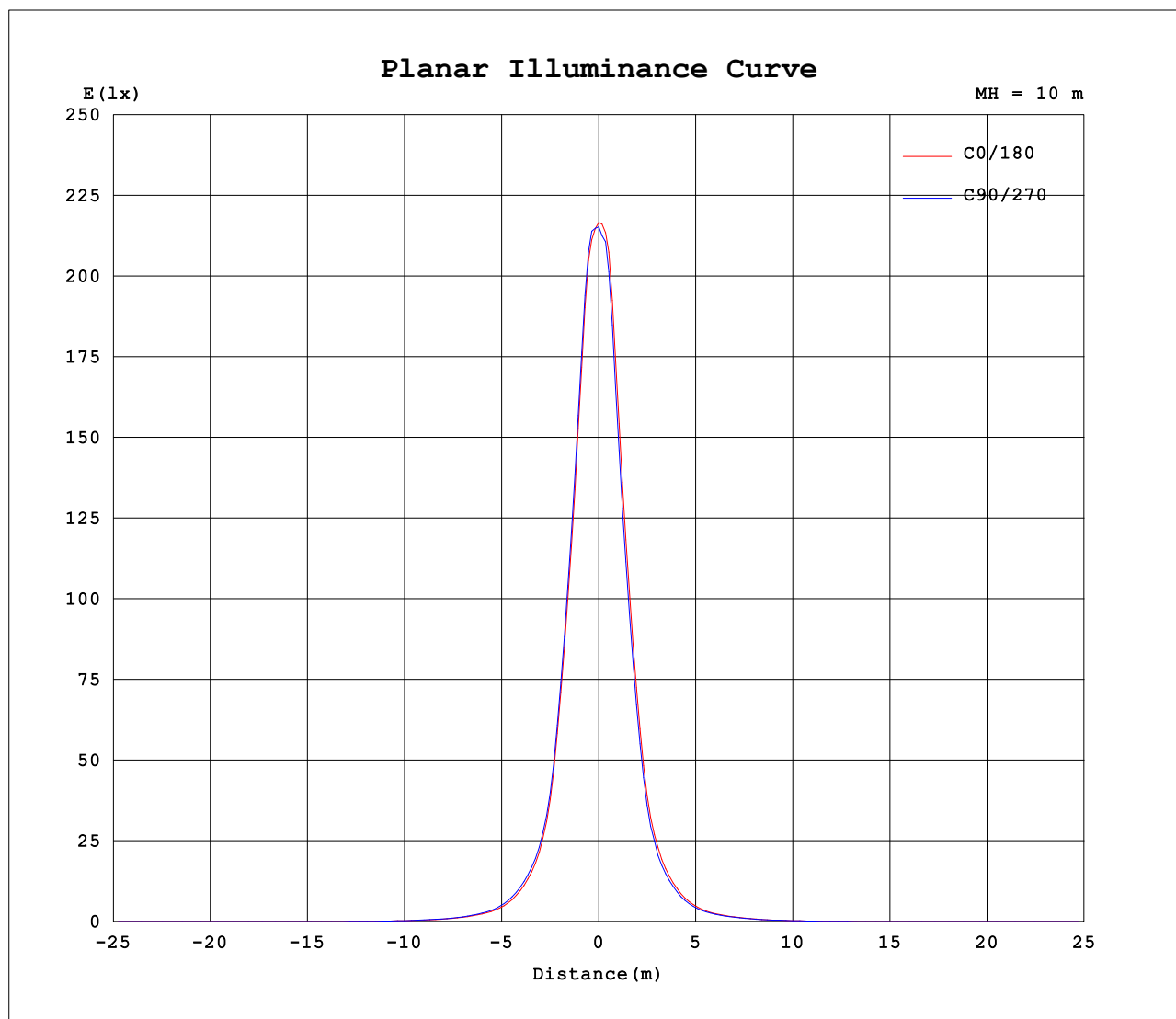
AvgL	cd/m2
L_0~180 (65) av	3919
L_0~180 (75) av	3326
L_0~180 (85) av	6146
L_90~270 (65) av	3946
L_90~270 (75) av	3357
L_90~270 (85) av	6109
L_45 (65) av	3997
L_45 (75) av	3394
L_45 (85) av	6203

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-03-06

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: AE
Test Date: 2020-03-06

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.240m [K=1.0000]
Remarks:

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.240m [K=1.0000]
 Remarks:

```

Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

```